

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors : Vincent et al.

Patent No. : **7,131,482**

Title : DISTRIBUTOR DEVICE FOR USE IN METAL CASTING

Serial No. : 10/693,351

Filed : 10/24/2003

Examiner : Lin, Ing Hour

Group Art Unit : 1725

Confirmation No. : 2709

Attorney Docket No. : UDL 2 0022-2

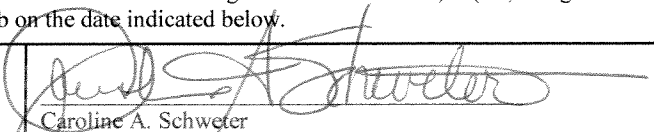
PETITION FOR CORRECTION OF FOREIGN PRIORITY DATA

MAIL STOP PETITIONS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

The patentees hereby petition for correction of the foreign priority data for this patent.

No fee is believed due. If any fee is required, it should be charged to Deposit Account 06-0308.

CERTIFICATE OF ELECTRONIC TRANSMISSION	
I hereby certify that this correspondence (and any item referred to herein as being attached or enclosed) is (are) being transmitted to the USPTO by electronic transmission via EFS-Web on the date indicated below.	
Date: July 29, 2008	 Caroline A. Schweter

This patent, U.S. Patent No. 7,131,482 (first page attached), is a continuation of U.S. Patent No. 7,036,555 (first page attached).

The foreign priority claim and submission of the foreign priority document were timely in the parent patent (U.S. Patent No. 7,036,555) and the priority data are correctly entered for the parent application/patent as:

GB 9918350.1 (Great Britain) filed August 5, 1999

As a continuation, this patent (U.S. Patent No. 7,131,482) is entitled to the same foreign priority data as the parent. The foreign priority claim for this patent and receipt of the priority document were acknowledged during prosecution by the Examiner in the Office action mailed 09/19/2005 (first 2 pages attached).

This patent (U.S. Patent No. 7,131,482) was printed without noting the foreign priority claim on its face, and the patentee requested a Certificate of Correction with respect to the foreign priority data. The request was denied (copies attached).

The patentee hereby respectfully petitions for the foreign priority data (**GB 9918350.1 (Great Britain) filed August 5, 1999**) to be perfected and for the issuance of a Certificate of Correction for this patent.

Respectfully submitted,



Steven Haas (Reg. No. 37,841)

Fay Sharpe LLP

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Cleveland, Ohio 44114

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US007131482B2

(12) **United States Patent**
Vincent et al.(10) **Patent No.:** **US 7,131,482 B2**
(45) **Date of Patent:** ***Nov. 7, 2006**(54) **DISTRIBUTOR DEVICE FOR USE IN METAL CASTING**(75) Inventors: **Mark Vincent**, Leighton Buzzard (GB);
Sylvain Tremblay, Jonquiere (CA)(73) Assignee: **Pyrotek Engineering Materials Limited**, Milton Keynes (GB)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 175 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **10/693,351**(22) Filed: **Oct. 24, 2003**(65) **Prior Publication Data**

US 2004/0084172 A1 May 6, 2004

Related U.S. Application Data

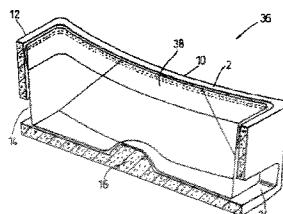
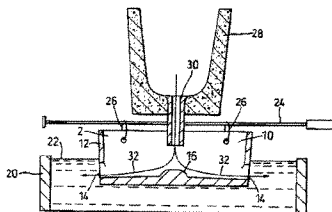
(63) Continuation of application No. 10/048,695, filed on Jul. 19, 2002, now Pat. No. 7,036,555.

(51) **Int. Cl.**
B22D 37/00 (2006.01)(52) **U.S. Cl.** **164/337**; 164/437; 222/606;
222/594(58) **Field of Classification Search** 164/437,
164/337, 488, 489, 133, 134; 222/606, 594
See application file for complete search history.(56) **References Cited****U.S. PATENT DOCUMENTS**2,757,425 A 8/1956 Duncan et al.
2,876,509 A * 3/1959 Gardner 164/437
3,111,732 A 11/1963 Schroer et al.3,303,032 A 2/1967 Holt et al.
3,654,150 A 4/1972 Eccles
3,729,097 A 4/1973 Collins et al.
3,850,684 A * 11/1974 Gamble 427/372.2
4,016,924 A 4/1977 Maier
4,697,632 A 10/1987 Lirones
4,834,876 A 5/1989 Walker
5,081,640 A * 1/1992 Bebbert et al. 373/25
5,207,974 A 5/1993 Yun
5,227,078 A * 7/1993 Augustine, III 222/606
5,244,032 A 9/1993 Banksden et al.
5,871,660 A 2/1999 Xu et al.
6,202,735 B1 3/2001 Rittner
6,270,717 B1 * 8/2001 Tremblay et al. 266/230**FOREIGN PATENT DOCUMENTS**EP 0 042 897 A1 1/1982
EP 184634 6/1986
EP 0 202 004 A2 11/1986
EP 0 302 975 A1 2/1989
EP 0 302 976 A1 2/1989
EP 0 463 257 B1 1/1992

(Continued)

Primary Examiner—Kevin Kerns*Assistant Examiner*—I.-H. Lin(74) *Attorney, Agent, or Firm*—Fay, Sharpe, Fagan, Minnich & McKee, LLP(57) **ABSTRACT**

A distributor device for use in aluminium casting includes a rigid, substantially bowl-shaped receptacle (2) of a refractory material having a base member (4) and a peripheral wall (6) that extends upwards from the base. The receptacle has an inlet opening (8) towards the upper end thereof and a pair of outlet openings (14) towards the base thereof. The device is constructed and arranged such that, in use, molten aluminium poured into the distributor device through the inlet opening (8) is redirected by the distributor device and flows outwards into the mould through the outlet openings (14).

29 Claims, 5 Drawing Sheets



US007036555B1

(12) **United States Patent**
Vincent et al.

(10) **Patent No.:** **US 7,036,555 B1**
(45) **Date of Patent:** **May 2, 2006**

(54) **DISTRIBUTOR DEVICE FOR USE IN METAL CASTING**

(75) Inventors: **Mark Vincent**, Leighton Buzzard (GB);
Sylvain Tremblay, Jonquiere (CA)

(73) Assignee: **Pyrotek Engineering Materials Limited** (GB)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 696 days.

(21) Appl. No.: **10/048,695**

(22) PCT Filed: **Aug. 4, 2000**

(86) PCT No.: **PCT/GB00/02951**

§ 371 (c)(1),

(2), (4) Date: **Jul. 19, 2002**

(87) PCT Pub. No.: **WO01/10584**

PCT Pub. Date: **Feb. 15, 2001**

(30) **Foreign Application Priority Data**

Aug. 5, 1999 (GB) 9918350

(51) **Int. Cl.**
B22D 37/00 (2006.01)

(52) **U.S. Cl.** **164/337**; 164/437; 222/606;
222/594

(58) **Field of Classification Search** 164/337,
164/437, 488, 489, 133, 134; 222/606, 594
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,757,425 A 7/1956 Duncan et al.
3,111,732 A 11/1963 Schroer et al. 164/134
3,303,032 A 2/1967 Holt et al. 501/106
3,654,150 A 4/1972 Eccles

3,729,097 A 4/1973 Collins et al.
4,016,924 A * 4/1977 Maier 164/489
4,697,632 A 10/1987 Lirones 164/369
4,834,876 A 5/1989 Walker
5,207,974 A 5/1993 Yun 266/230
5,227,078 A * 7/1993 Augustine, III 222/606
5,244,032 A 9/1993 Banksden et al. 164/134
5,871,660 A 2/1999 Xu et al. 222/594
6,202,735 B1 * 3/2001 Rittner 164/437

FOREIGN PATENT DOCUMENTS

EP 0 042 897 A1 1/1982
EP 0 202 004 A2 11/1986
EP 0 302 975 A1 2/1989
EP 0 302 976 A1 2/1989
EP 0 463 257 B1 1/1992
EP 0 771 601 A1 5/1997
GB 2 214 849 A 9/1989
GB 2 226 785 A 7/1990
GB 2 331 262 A 5/1999
SU 980 938 12/1982
WO WO 90/02822 3/1990
WO WO 99/44719 9/1999

* cited by examiner

Primary Examiner—M. Alexandra Elve

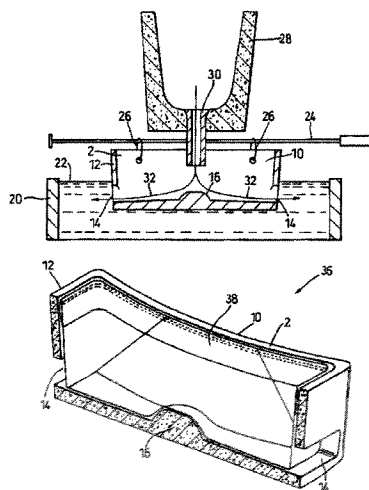
Assistant Examiner—I.-H. Lin

(74) *Attorney, Agent, or Firm*—Fay, Sharpe, Fagan,
Minnich & McKee, LLP

(57) **ABSTRACT**

A distributor device for use in aluminium casting includes a rigid, substantially bowl-shaped receptacle (2) of a refractory material having a base member (4) and a peripheral wall (6) that extends upwards from the base. The receptacle has an inlet opening (8) towards the upper end thereof and a pair of outlet openings (14) towards the base thereof. The device is constructed and arranged such that, in use, molten aluminium poured into the distributor device through the inlet opening (8) is redirected by the distributor device and flows outwards into the mould through the outlet openings (14).

7 Claims, 5 Drawing Sheets





UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/693,351	10/24/2003	Mark Vincent	UDLZ 2 00022-2	2709
27885	7590	09/19/2005	EXAMINER	
FAY, SHARPE, FAGAN, MINNICH & MCKEE, LLP 1100 SUPERIOR AVENUE, SEVENTH FLOOR CLEVELAND, OH 44114			LIN, ING HOUR	
			ART UNIT	PAPER NUMBER
			1725	

DATE MAILED: 09/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/693,351	VINCENT ET AL.	
	Examiner	Art Unit	
	Ing-Hour Lin	1725	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 18-41 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 18-41 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☒ Certified copies of the priority documents have been received in Application No. 10/048,695.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input checked="" type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>10/03, 01, 5, 9/04</u> . | 6) <input type="checkbox"/> Other: _____ |

Hi



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UDLZ 2 00022-2

Commissioner for Patents
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Alexandria, VA 22313-1450
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Date

: July 23 2007

RECEIVED

JUL 27 2007

FAY, SHARPE LLP

Patent No. : 7,131,482
Inventor(s) : Mark Vincent, et al.
Issued : November 7, 2006
Title : DISTRIBUTOR DEVICE FOR USE IN METAL CASTING
Doc./File No. : 7131482

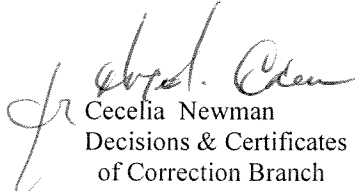
Re: Request for Certificate of Correction

Consideration has been given your request for the issuance of a certificate of correction.

Review of the application file has revealed the omission of the Foreign Priority data on the printed patent as a result of applicant's failure to fully comply with 35 U.S.C. 119, in that conditional requirements were not met. Applicant's attention is directed to MPEP 201.14(a), 37 CFR 1.17(i).

In view of the forgoing, applicant's request in this matter is hereby denied.

Any telephone inquiry concerning this communication should be directed to Ms. A. Green at (703) 308-9380 ext. 123.


Cecelia Newman
Decisions & Certificates
of Correction Branch

(703) 308-9390 or (703) 308-9380 ext. 123

Steven M. Hass, Esq.
Fay Sharpe, LLP
1100 Superior Ave.m,
7th Flr.
Cleveland OH 4114

CBN/arg

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WITHOUT FILE~~

Emailed to: JMH
By: DLS On: 9-11-07



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S) : MARK VINCENT et al.
FOR : DISTRIBUTOR DEVICE FOR USE IN
METAL CASTING
PATENT NO. : **7,131,482**
ISSUED : 11/07/2006
EXAMINER : Kerns, Kevin
ART UNIT : 1725
CONFIRMATION NO. : 2709
ATTORNEY DOCKET NO. : UDLZ 2 00022-2

REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT

Commissioner for Patents
ATTN.: CERTIFICATE OF CORRECTIONS BRANCH
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Attached, in duplicate is PTO/SB/44, with at least one copy being suitable for printing. The following field was omitted from the title page of the issued patent:

Title Page,

Item [30], **Foreign Application Priority Data**, should be inserted as follows:

--[30] Aug. 5, 1999 (GB) 9918350--

Certificate
JAN 10 2007
of Correction

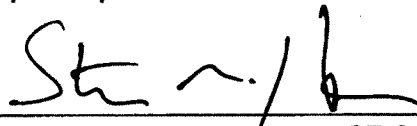
JAN 12 2007

Please send the Certificate to:

Steven M. Haas, Esq.
FAY SHARPE LLP
1100 Superior Avenue
Seventh Floor
Cleveland, OH 44114-2579

Respectfully submitted,

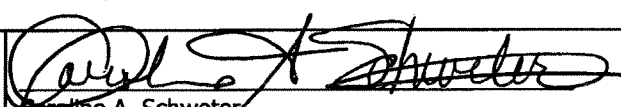
Fay Sharpe LLP



January 3, 2007

Date

Steven M. Haas, Reg. No. 37,841
1100 Superior Avenue, Seventh Floor
Cleveland, OH 44114-2579
216-861-5582

CERTIFICATE OF MAILING	
I hereby certify that this correspondence (and any item referred to herein as being attached or enclosed) is (are) being deposited with the United States Postal Service as First Class Mail, addressed to: Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.	
Date: <u>January 3, 2007</u>	 Caroline A. Schweter

JAN 12 2007

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7,131,482
APPLICATION NO.: 10/693,351
ISSUE DATE : 11/07/2006
INVENTOR(S) : Mark Vincent et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page,

Item [30], Foreign Application Priority Data, should be inserted as follows:

--[30] Aug. 5, 1999 (GB) 9918350--

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Steven M. Haas, Esq.
Fay Sharpe LLP
1100 Superior Ave., 7th Fl., Cleveland, OH 44114

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

JAN 12 2007

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : 7,131,482

APPLICATION NO.: 10/693,351

ISSUE DATE : 11/07/2006

INVENTOR(S) : Mark Vincent et al.

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